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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------|------------------|
| 10/049,217 | 01/30/2002 | Yoichiro Sako | | 8450 |
| 7590 09/27/2005 | | | EXAMINER | |
| Jay H Maioli | | | HOFFMAN, BRANDON S | |
| Cooper & Dunham 1185 Avenue of the Americas | | | ART UNIT | PAPER NUMBER |
| New York, NY 10036 | | | 2136 | |
| | | | DATE MAILED: 09/27/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

|) | Application No. | Applicant(a) | | | | |
|--|---|---|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Action Summary | 10/049,217 | SAKO, YOICHIRO | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| The MAILING DATE of this communication app | Brandon S. Hoffman | 2136 | | | | |
| Period for Reply | | · | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED | l. the mailing date of this communication. (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on | _• | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ This | | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-44</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) <u>1-44</u> is/are rejected. | • | | | | | |
| 7) Claim(s) <u>9,21,25,33,37 and 38</u> is/are objected t | | | | | | |
| 8) Claim(s) are subject to restriction and/or | relection requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | | |
| 10)⊠ The drawing(s) filed on <u>30 January 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| 11) I he oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action of form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: | | | | | | |
| | 1.⊠ Certified copies of the priority documents have been received. 2.☐ Certified copies of the priority documents have been received in Application No | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | | | | | |
| | | | | | | |
| Attachment(s) | _ | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date | | | | | | |
|) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152) | | | | | | |
| Paper No(s)/Mail Date | 6) | | | | | |

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - On page 4 (and others), "severer" should be replaced with "more severe."

Claims 9, 21, 25, 32, 33, and 37-39 is objected to because of the following informalities:

- Claims 9, 21, 25, 32, 33, and 38 should say "... managing condition showing that copying is impossible" instead of "... managing condition showing that copy is impossible."
- Claim 25 should say "The recording and/or reproducing method..." instead of "A recording and/or reproducing method..."
- Claim 37 should say "...more severe..." instead of "...severer..."
- Claim 39 should say "...permits the copying of the contents data..." instead of
 "...permits the copy of the contents data..."

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. <u>Claims 1-5, 8-15, and 18-39</u> are rejected under 35 U.S.C. 102(e) as being anticipated by <u>Rhoads et al.</u> (U.S. Patent No. 6,522,769).

Regarding claims 1 and 11, Rhoads et al. teaches a recording medium/method in which a plurality of management information are embedded and recorded into content data in a plurality of forms of different remaining intensities and at least one of said plurality of management information is management information having a restriction that is more severe than restrictions of other management information (col. 14, lines 12-26).

Regarding <u>claims 2 and 12</u>, <u>Rhoads et al.</u> teaches wherein said management information includes at least one of copy management information for managing a copying operation of the content data and reproduction management information for managing a reproducing operation of the content data (col. 13, lines 44-50).

Regarding claims 3 and 13, Rhoads et al. teaches wherein said management information is embedded in the content data in a form of a strong remaining intensity by which said management information remains even if a signal process is executed to the content data and in a form of a weak remaining intensity by which said management information is erased by executing a signal process to the content data (col. 14, lines 27-35).

Regarding <u>claims 4 and 14</u>, <u>Rhoads et al.</u> teaches wherein said form of a strong remaining intensity by which said management information is embedded in the content data is a form such that said management information is spread-spectrum diffused and multiplexed into the content data (col. 27, lines 21-28).

Regarding claims 5 and 15, Rhoads et al. teaches wherein said form of the strong remaining intensity by which said management information is embedded in the data of said contents is a form such that said management information is inserted either at one of a first peak and a second peak in a predetermined range of the content data or at a position near one of said first peak and said second peak (col. 14, lines 20-23).

Regarding claims 8 and 18, Rhoads et al. teaches wherein among said plurality of management information, a managing condition of the management information embedded in the form of the strong remaining intensity by which said management information is embedded in the content data is more severe than that of the

management information embedded in the form of the weak remaining intensity by which said management information is embedded in the content data (col. 14, lines 27-35).

Regarding <u>claim 9</u>, <u>Rhoads et al.</u> teaches wherein said management information is a copy management information, the management information embedded in the form of the strong remaining intensity by which said management information is embedded in the content data is a managing condition showing that copying is impossible (col. 14, lines 16-20).

Regarding <u>claim 10</u>, <u>Rhoads et al.</u> teaches wherein when said management information is reproduction management information, the management information embedded in the form of the strong remaining intensity by which said management information is embedded in the content data is a managing condition showing that reproduction is impossible (col. 13, lines 44-50).

Regarding <u>claim 19</u>, <u>Rhoads et al.</u> teaches a recoding method for a recording medium, comprising the steps of:

- Adding first management information to input content data (col. 14, lines 16-20);
- Adding second management information whose remaining intensity is weaker
 than a remaining intensity of said first management information to the content

data to which said first management information has been added (col. 14, lines 27-30); and

 Performing a recording signal process on the content data to which said first and second management information have been added, and recording resultant data into the recording medium (col. 13, lines 61-67).

Regarding <u>claim 20</u>, <u>Rhoads et al.</u> teaches wherein a managing condition by said first management information is more severe than a managing condition by said second management information (col. 14, lines 27-35).

Regarding <u>claim 21</u>, <u>Rhoads et al.</u> teaches wherein each of said first and second management information is copy management information, the managing condition by said first management information is a managing condition showing that copying is impossible (col. 14, lines 16-20).

Regarding claims 22 and 27, Rhoads et al. teaches a recoding and/or reproducing method for a recording medium, comprising the steps of:

Reading out content data from the recoding medium in which at least first
management information and second management information whose remaining
intensity is weaker than a remaining intensity of said first management
information have been embedded and recorded in the data of said contents (col.

14, lines 16-20 and lines 27-30), and discriminating whether said second management information has been detected (col. 14, lines 9-11);

 Wherein when it is determined that said second management information has been detected, a recording and reproducing operation are controlled based on managing condition shown by said second management information (col. 14, lines 6-11).

Regarding <u>claims 23 and 28</u>, <u>Rhoads et al.</u> teaches wherein when it is determined that said second management information is not detected, the recording and/or reproducing operation are controlled based on said first management information (col. 14, lines 30-35).

Regarding <u>claims 24 and 31</u>, <u>Rhoads et al.</u> teaches wherein the managing condition by said first management information is more severe than a managing condition by said second management information (col. 13, lines 61-63).

Regarding claims 25 and 33, Rhoads et al. teaches

Wherein when each of said first and second management information is copy
management information, the managing condition by said first management
information is a managing condition showing that copying is impossible (col. 14,
lines 16-20), and

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When it is determined that said second management information has been detected, the recording operation is controlled based on said second management information (col. 14, lines 16-18), and when it is determined that said second management information is not detected, the recording operation is inhibited based on said first management information (col. 14, lines 18-20).

Regarding claims 26 and 34, Rhoads et al. teaches

- Wherein when each of said first and second management information is reproduction information, the managing condition by said first management information is a managing condition showing that reproduction is impossible (col. 13, lines 44-50), and
- When it is determined that said second management information has been detected, the reproducing operation is controlled based on said second management information (col. 14, lines 16-18), and when it is determined that said second management information is not detected, the reproducing operation is inhibited based on said first management information (col. 14, lines 18-20).

Regarding <u>claim 29</u>, <u>Rhoads et al.</u> teaches wherein when it is determined that said first management information is not detected, the recording and/or reproducing operation is controlled based on said second management information (col. 14, lines 9-11).

Regarding <u>claim 30</u>, <u>Rhoads et al.</u> teaches wherein when it is determined that neither said first nor second management information is detected, the recording and/or reproducing operation is controlled based on additional information added to the content data (col. 6, lines 26-43).

Regarding claim 32, Rhoads et al. teaches

- Wherein when each of said first and second management information is copy
 management information, the managing condition by said first management
 information is a managing condition showing that copying is impossible (col. 14,
 lines 16-20), and
- When it is determined that said second management information has been
 detected, the recording operation is controlled based on said second
 management information (col. 14, lines 16-18), and when it is determined that
 said second management information is not detected, the recording operation is
 inhibited based on said first management information (col. 14, lines 18-20).

Regarding <u>claim 35</u>, <u>Rhoads et al.</u> teaches a copy control method for contents data, the method comprising the steps of:

Discriminating whether second management information has been detected from
the content data in which at least first management information and the second
management information whose remaining intensity is weaker than a remaining

intensity of said first management information have been added (col. 14, lines 16-20 and lines 27-30); and

 When it is determined that said second management information has been detected, controlling a copying operation of the data of said contents based on a managing condition shown by said second management information (col. 14, lines 6-11).

Regarding <u>claim 36</u>, <u>Rhoads et al.</u> teaches wherein when it is determined that said second management information is not detected, the copying operation of the data of said contents is controlled based on said first management information (col. 14, lines 30-35).

Regarding <u>claim 37</u>, <u>Rhoads et al.</u> teaches wherein a managing condition by said first management information is more severe than that by said second management information (col. 13, lines 61-63).

Regarding claim 38, Rhoads et al. teaches

Wherein when each of said first and second management information is copy
management information, the managing condition by said first management
information is a managing condition showing that copying is impossible (col. 14,
lines 16-20), and

• When it is determined that said second management information has been detected, the copying operation of the data of said contents is controlled based on said second management information (col. 14, lines 16-18), and when it is determined that said second management information is not detected, the copying operation of the content data is inhibited based on said first management information (col. 14, lines 18-20).

Regarding claim 39, Rhoads et al. teaches wherein when said second management information permits the copying of the contents data the copying operation of the content data is permitted based on said second management information, and said second management information which is added to said content data which is copied is rewritten to a managing condition for inhibiting the copying of the content data (col. 13, lines 58-67).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. <u>Claims 6, 7, 16, and 17</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Rhoads et al.</u> (USPN '769) in view of <u>AAPA</u> (Applicant's admitted prior art).

Regarding <u>claims 6 and 16</u>, <u>Rhoads et al.</u> teaches all the limitations of claims 1 and 3, & 11 and 12, respectively, above. However, <u>Rhoads et al.</u> does not specifically teach wherein said form of the weak remaining intensity by which said management information is embedded in the content data is a form such that said management information is inserted into lower bits of the content data.

AAPA teaches wherein said form of the weak remaining intensity by which said management information is embedded in the content data is a form such that said management information is inserted into lower bits of the content data (specification, page 1, last paragraph).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine embedding into lower bits of the content data, as taught by <u>AAPA</u>, with the medium/method of <u>Rhoads et al.</u> It would have been obvious for such modifications because lower bit embedding of watermarks is an easy way to provide a weak watermark.

Regarding <u>claims 7 and 17</u>, <u>Rhoads et al.</u> teaches all the limitations of claims 1 and 3, & 11 and 12, respectively, above. However, <u>Rhoads et al.</u> does not specifically teach wherein said form of the weak remaining intensity by which said management information is embedded in the content data is a form such that said management

information is inserted into a high-order coefficient at the time when the content data

have been compressed.

weak watermark.

AAPA teaches wherein said form of the weak remaining intensity by which said management information is embedded in the content data is a form such that said management information is inserted into a high-order coefficient at the time when the

content data have been compressed (specification, page 1, last paragraph).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine embedding into high-order coefficients when the content data is being compressed, as taught by <u>AAPA</u>, with the medium/method of <u>Rhoads et al.</u> It would have been obvious for such modifications because high-order coefficient embedding of watermarks during compression is an easy way to provide a

<u>Claims 40-44</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Rhoads et al.</u> (USPN '769) in view of <u>Kuroda et al.</u> (U.S. Patent No. 6,633,723).

Regarding <u>claim 40</u>, <u>Rhoads et al.</u> teaches a reproducing apparatus for reproducing a recording medium, comprising:

At least first management information and second management information
 whose remaining intensity is weaker than remaining intensity of said first

management information have been embedded and recorded (col. 14, lines 16-20 and lines 27-30);

- Detecting said second management information from the content data read out from said recording medium by said head (col. 14, lines 9-11); and
- A discriminating circuit to which a detection result by said detecting circuit is supplied and which controls an on/off operation of said switching circuit unit based on a managing condition shown by said second management information when the detection result showing that said second management information has been detected by said detecting circuit is supplied thereto (col. 14, lines 16-18).

Rhoads et al. does not specifically show the circuits described in the reproducing apparatus.

Kuroda et al. teaches a read head for reading out content data (fig. 9, ref. num 51), a signal processing unit for performing a signal process to the content data read out from said recording medium by said head (fig. 9, ref. num 60 and col. 22, lines 51-53), a switching circuit unit to which an output signal from said signal processing unit is applied (fig. 9, ref. num 57 and col. 22, lines 11-25), detecting circuit for detecting management information (fig. 9, ref. num 52 and col. 21, lines 35-42), and a discriminating circuit (fig. 9, ref. num 56).

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It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine specific circuits of a reproducing apparatus, as taught by <u>Kuroda et al.</u>, with the apparatus of <u>Rhoads et al.</u> It would have been obvious for such modifications because the circuits of Kuroda et al. provide a tangible reproducing device that, when combined with Rhoads et al., provide at least two watermarks used for managing reproducing of generations of data.

Regarding <u>claim 41</u>, <u>Rhoads et al.</u> as modified by <u>Kuroda et al.</u> teaches wherein when it is determined that said second management information is not detected, the on/off operation of said switching circuit unit is controlled based on said first management information (see col. 14, lines 30-35 of Rhoads et al.).

Regarding claim 42, Rhoads et al. as modified by Kuroda et al. teaches further comprising a converting unit to which the output signal from said signal processing unit is supplied and which converts said supplied output signal into an analog signal (see fig. 9, ref. num 64 of Kuroda et al.), and wherein said switching circuit unit has a first switching circuit to which the output signal from said signal processing unit is supplied and a second switching circuit to which an output signal from said converting unit is supplied (fig. 9, ref. num 57 of Kuroda et al., 57 goes to 58 and 64).

Regarding <u>claim 43</u>, <u>Rhoads et al.</u> as modified by <u>Kuroda et al.</u> teaches wherein when each of said first and second management information is copy management

information on/off operations of said first and second switching circuits are controlled based on a managing condition shown by said second management information (see col. 14, lines 6-11 of Rhoads et al.), and when said second management information cannot be detected, said first switching circuit is turned off based on said first management information (see col. 14, lines 30-35 of Rhoads et al.).

Regarding claim 44, Rhoads et al. as modified by Kuroda et al. teaches wherein when each of said first and second management information is reproduction management information, on/off operations of said first and second switching circuits are controlled based on managing conditions shown by said second management information (see col. 14, lines 6-11 of Rhoads et al.), and when said second management information cannot be detected, said second switching circuit is turned off based on said first management information (see col. 14, lines 30-35 of Rhoads et al.).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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BH

Branda Hoff